

FORM PTO-1390 (Modified)  
(REV 11-2000)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

**TRANSMITTAL LETTER TO THE UNITED STATES**  
**DESIGNATED/ELECTED OFFICE (DO/EO/US)**  
**CONCERNING A FILING UNDER 35 U.S.C. 371**

213854US2PCT

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

097926221

INTERNATIONAL APPLICATION NO.  
PCT/SE00/00560INTERNATIONAL FILING DATE  
22 March 2000PRIORITY DATE CLAIMED  
26 March 1999

TITLE OF INVENTION

PERSONAL COMMUNICATION ON COMPUTER NETWORKS

APPLICANT(S) FOR DO/EO/US

Jorgen BJORKNER, et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

**Items 13 to 20 below concern document(s) or information included:**

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
20. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
22. ☐ Certificate of Mailing by Express Mail
23. ☒ Other items or information:

PCT/IB/308

Notice of Priority

Request for Consideration of Documents Cited in the International Search Report

U.S. APPLICATION NO. (IF KNOWN) SEE 37 CFR

097/926221

INTERNATIONAL APPLICATION NO.

PCT/SE00/00560

ATTORNEY'S DOCKET NUMBER

213854US2PCT

24. The following fees are submitted:

**BASIC NATIONAL FEE ( 37 CFR 1.492 (a) (1) - (5) ) :**

- ☒ Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... **\$1000.00**
- ☐ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ..... **\$860.00**
- ☐ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... **\$710.00**
- ☐ International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... **\$690.00**
- ☐ International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... **\$100.00**

**ENTER APPROPRIATE BASIC FEE AMOUNT =**

**\$1,000.00**

Surcharge of **\$130.00** for furnishing the oath or declaration later than ☐ 20 ☒ 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).

**\$130.00**

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	30 - 20 =	10	x \$18.00
Independent claims	2 - 3 =	0	x \$80.00
Multiple Dependent Claims (check if applicable).			<input type="checkbox"/>

**\$180.00**

**\$0.00**

**\$0.00**

**TOTAL OF ABOVE CALCULATIONS =**

**\$1,310.00**

☐ Applicant claims small entity status. (See 37 CFR 1.27). The fees indicated above are reduced by 1/2.

**\$0.00**

**SUBTOTAL =**

**\$1,310.00**

Processing fee of **\$130.00** for furnishing the English translation later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).

**\$0.00**

**TOTAL NATIONAL FEE =**

**\$1,310.00**

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable).

**\$0.00**

**TOTAL FEES ENCLOSED =**

**\$1,310.00**

Amount to be:  
refunded \$  
charged \$

- a. ☒ A check in the amount of **\$1,310.00** to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. **15-0030** A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

Telephone: (703)413-3000  
Fax: (703)413-2220

**Surinder Sachar**  
**Registration No. 34,423**



**22850**

*Surinder Sachar*  
SIGNATURE

**Marvin J. Spivak**  
NAME

**24,913**  
REGISTRATION NUMBER

**9-26-01**  
DATE

213854US

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF :  
JORGEN BJORKNER ET AL : ATTN: APPLICATION DIVISION  
SERIAL NO: NEW U.S. PCT APPLN. :  
FILED: HEREWITH :  
FOR: PERSONAL COMMUNICATION :  
ON COMPUTER NETWORKS :

PRELIMINARY AMENDMENT

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

SIR:

Prior to a first examination on the merits, please amend the above-identified application as follows:

IN THE CLAIMS

Please cancel Claims 1-30 without prejudice.

Please add new Claims 31-60 as follows:

31. (New) An arrangement at an open computer network wherein communication possibilities are created between persons or agents, who request access to a same information, or to amounts of related information in form of, for instance, a same storing place, a same speciality, a same author, or a same publisher, the information or amount of information may have which ever storing place, owner, author and publisher in the open network that suits.

32. (New) An arrangement as claimed in claim 31, wherein prepared and not prepared meetings are possible to establish on any website where the persons or agents do not need to search for a special or special meeting places, such as chatrooms.

33. (New) An arrangement as claimed in claim 31, wherein said communication possibilities include direct communication.

34. (New) An arrangement as claimed in claim 33, wherein said direct communication can be written or oral dialogue in real time.

35. (New) An arrangement as claimed in claim 31, wherein said communication possibilities include virtual meetings.

36. (New) An arrangement as claimed in claim 35, wherein said communication possibilities include functions to make files accessible to all participants in said virtual meeting.

37. (New) An arrangement as claimed in claim 31, wherein said communication possibilities include distribution of address information to, and a picture of, said persons, and address information and a picture related to said agents.

38. (New) An arrangement as claimed in claim 31, wherein said open computer network is Internet or other network, for instance an intranet, which utilizes the same technology as Internet, and said access to information and amounts of information include visits to at least one web page.

39. (New) An arrangement as claimed in claim 38, wherein said communication possibilities are created between visitors to a same web page, or to a web page that is included in an identified amount of web pages.

40. (New) An arrangement as claimed in claim 39, wherein said identified amounts of web pages address persons who have a common interest, by the web pages within a same

amount being, for instance, at a same server, at a same group of servers, dealing with the same speciality, belonging to a same organization, or having a same publisher, author, or constructor.

41. (New) An arrangement as claimed in claim 38, wherein said communication possibilities are allowed on just any web page.

42. (New) An arrangement as claimed in claim 38, wherein the user's current IP-address is utilized to establish communication.

43. (New) An arrangement as claimed in claim 39, including the following parts:  
client program/additions to a program, which can be loaded to the user's terminal;  
central management functions, which manage the arrangement and that communicate with users;

a database, which stores information about users and information regarding appointment of said identified amounts of web pages.

44. (New) An arrangement as claimed in claim 31, wherein necessary resources for the user's terminal working place, in addition to standard applications to create access to information, can be loaded by the open computer network and be installed at the terminal working place.

45. (New) An arrangement as claimed in claim 31, wherein users can register the following information:

a picture of the user;  
identity information such as name and organizational affiliation;  
address information, such as address to establish communication, telephone numbers, e-mail address; and  
biographical data.

46. (New) An arrangement as claimed in claim 39, wherein said virtual meetings give possibility to:

chatting,

communication of files,

management of files in common,

access rights to communicated files and files in common,

access to address information of the participants in the meeting, and

showing of pictures of participants of the meeting.

47. (New) A method to create, in an open computer network, virtual meetings between persons or others playing a part, for instance agents, who have an interest in common, who visit websites, included in a number of websites, which persons with a common interest are expected to visit, wherein said meetings are established without activating measures needed to be taken by any of the participants in the meeting.

48. (New) A method as claimed in patent claim 47, wherein said meetings are established independent of the place of the participants of the meeting or address in the network.

49. (New) A method as claimed in patent claim 47, wherein the participants of said meeting are given information about the identities of other participants, for instance in form of name, organizational affiliation and stored picture or direct transmission of moving picture.

50. (New) A method as claimed in patent claim 47, wherein the participants of said meeting are given information about the address of other participants, for instance e-mail address and current IP-address.

51. (New) A method as claimed in patent claim 47, wherein the participants of said meeting can carry on conversation, for instance written or oral conversation.

52. (New) A method as claimed in patent claim 47, wherein files can be opened for the participants at said meeting.

53. (New) A method as claimed in claim 47, wherein participants of said meeting can make files and documents accessible to other participants at said meeting.

54. (New) A method as claimed in claim 47, wherein said open computer network is Internet or other network, for instance an intranet, which utilizes the same technology as Internet.

55. (New) A method as claimed in patent claim 54, wherein client software, which is utilized in addition to a web crawler to utilize the invention, is loaded to the user terminal from a management system.

56. (New) A method as claimed in patent claim 54, wherein said meetings:

are prepared or not prepared;

are established between visitors to web pages that are located within the same world, where a world is an amount of web pages that persons who have interests in common can be expected to visit.

57. (New) A method as claimed in patent claim 56, wherein modifications of web pages within the world, or of web servers from where said web pages are loaded to establish meetings, are not needed.

58. (New) A method as claimed in claim 56, wherein web pages within a same world are located to a same server, to a same node, deal with a same speciality, have a same authors, have a same publishers, or belong to a same organization.

59. (New) A method as claimed in claim 54, wherein a support staff, or selling staff, of a company have a possibility to see who is visiting the web site of the company and to communicate directly with these visitors.

60. (New) A method as claimed in claims 54, wherein the current IP-address of each participant of the meeting is utilized to establish communication between the participants of the meeting.

#### IN THE ABSTRACT

Please delete the original Abstract page 22 in its entirety and insert therefor:

#### ABSTRACT OF THE DISCLOSURE

An open computer network that enables a person who is looking at a picture page by the open computer network, for instance the Internet or an intranet, to communicate with other persons, who are looking at the same page. An arrangement and a method that makes it possible for a visitor to retrieve information from a server, and to communicate with others who are retrieving related information. Information, which, for instance, is within the same speciality, has the same storing place, the same author, or the same publisher can be regarded as related. Thereby, persons can meet in the virtual world and get access to: information about, inclusive address to and picture of, other persons who are searching information within the same or related fields; the possibility for direct communication; and access to documents in common, or other objects or files. The network includes a management system, client program, and database.

#### REMARKS

Favorable consideration of this application, as presently amended, is respectfully requested.

The present Preliminary Amendment is submitted to place the above-identified application in more proper format under United States practice. By the present Preliminary



Amendment original claims 1-30 are canceled and new claims 31-60 are presented for examination. New claims 31-60 are deemed to be self-evident from the original disclosure, including original claims 1-30, and thus are not deemed to raise any issues of new matter. Any differences between new claims 31-60 and original claims 1-30 are deemed to at most broaden the scope of new claims 31-60.

A new Abstract believed to be in more proper format under United States practice is also submitted herein.

The present application is believed to be in condition for a full and thorough examination on the merits. An early and favorable consideration of the present application is hereby respectfully requested.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.



Gregory J. Maier  
Attorney of Record  
Registration No. 25,599  
Surinder Sachar  
Registration No. 34,423



**22850**

(703) 413-3000  
Fax No.: (703) 413-2220  
GJM/SNS:sjh

213854US

**Marked-Up Copy**

Serial No:

Amendment Filed on:

9-26-01

IN THE CLAIMS

Claims 1-30 (Canceled).

Claims 31-60 (New).

IN THE ABSTRACT

(New).

## PERSONAL COMMUNICATION ON COMPUTER NETWORKS

## TECHNICAL FIELD

5 The present invention relates to personal communication with pictures over an open computer network. The invention makes it possible for a person who is looking at a picture page via the open network to see and communicate with other persons who are looking at the same page.

10 In spite of the fact that there are virtual meeting places on the Internet, such as chat rooms, there are needed special arrangements to make it possible for users to meet on the Internet. The here described invention offers  
15 considerably increased possibilities for meetings between people by giving each web page possibility of being a potential meeting place. The invention creates virtual meeting places where the participants inter alia can exchange documents and execute a "conversation" by writing,  
20 at the same time as they can see each other.

## PRIOR ART

There are existing systems, which give users of Internet  
25 possibilities to see and communicate with others who are visiting the same web pages. Earlier known systems, however, require that modifications be made on all concerned web pages by a specific HTML-code being applied to each web page. This results in that the communication  
30 possibilities will be strongly connected to the web server, that is, the users can only see each other if they are visiting web pages of a web server where the same system to provide this communication facility is installed. A plurality of servers with the system installed can be  
35 interconnected to cover a plurality of web servers, but to make it work globally, all web servers of the Internet

would have to install the same system. Consequently it will only function on a limited amount of web pages on the Internet.

5 TECHNICAL PROBLEM

Today there is a great number, millions, of users on the Internet. There exist certain possibilities for communication, but yet there are no generally applicable  
10 methods to see the counterpart at the communication.

Certain web pages are adapted for direct communication with persons who are visiting just that page, so called chatting. Such solutions are connected to a separate web  
15 page, so called chat page. Any generally available possibility to direct communication with others does not exist via the web pages. It is, for instance, not possible to start a chat from just any page, and there are needed certain tools for chatting.

20 Chatting via a chat page is anonymous since the counterpart is not possible to identify. Name and other information in connection with the chatting is voluntary information that can be presented during the chatting and there are small  
25 possibilities to get a reliable identification. Neither there is any possibility to see the person with whom one is chatting.

A lot of Internet users are at the same time searching  
30 information in the same field. Several Internet users are at the same time retrieving web pages from the same organisation or other group of to each other related web pages. The users, however, have no possibility to detect others who are visiting the same pages. It is not even  
35 possible to know whether anybody else is visiting the same web page.

Customers who are visiting the web site of a company have today difficulties in getting into contact with and getting support, or answers to questions, from the company. The contact often has to be arranged by the company giving a telephone number that the customer can call, or by the customer sending an e-mail. By that it is also difficult or impossible for a company to get into contact with persons who are visiting the web site of the company and to with personal contact contribute to one for all parties good piece of business.

#### TECHNICAL SOLUTION

By the invention, an infrastructure is created which exist parallel with, but separate from, an open computer network, for instance Internet. The invention by that can be utilised together with all web pages on the Internet.

According to the invention, information sites (in Internet) are grouped into "worlds". A "world" is a multiple of web pages that persons with interests in common can be expected to visit. A "world" can for instance be constituted by web pages that are associated to the same server, deal with the same field of interest, or belong to the same organisation. According to the invention, the "world" constitutes the base for creation of contact between the users on the open computer network.

The invention is built of a management system, client program and a database. In the database, information sites (web pages) are grouped into "worlds", and users are registered with address and identity information. There is also possibility to store a picture file.

The client program, which is accessible to retrieve from the management system, includes necessary functions for

contact with the management system and for the communication possibilities with other users of the open computer network.

5    ADVANTAGES

By means of the here described invention, a person who visits a web page will find other persons who are visiting the same web page or "related" web pages. The invention  
10   makes it possible that people can meet in the virtual world without needing specific fora, such as chat rooms. Prepared and not prepared meetings are possible on just any web page.

15   Client software that is necessary, in addition to browser, to utilise the invention, is loaded to the user terminal from a central storing place. There are no modifications required of the web pages that are associated, or of the web servers from which the web pages are loaded.

20   The invention functions as a chat application on the Internet, and makes it possible for people with interests in common, and who for that reason are visiting the same web page, to get into contact with each other.

25   When the invention is used on the intranet of a company, it will promote spontaneous contacts between colleagues. It will by that be an important aid for internal distribution of information and communication.

30   The invention can be applied on the web site of a company and there directly give visitors at the web site support from staff at the company. Support staff have possibility to see the visitors and to communicate directly and give  
35   them advice and support and in other ways contribute to

that the visitors of the page will have the wanted information or contact.

In connection with electronic shopping via the website of a company, a user can be attended to by a seller who gives personal service and aid and who can guide the visitor at the web site of the company. The customers also can get assistance from a seller without need of calling a certain telephone number or write e-letter.

In computer aided co-operative applications (group programs), the invention can be used to show who are connected, and function as a support in the communication.

The invention can be used in connection with telephone conferences to show who are connected, and give the users easy facilities to share documents.

The invention makes it possible for people to meet in the virtual world, without need of specific fora, such as chat rooms. Prepared and not prepared meetings are possible on any web page. Spontaneous meetings will arise in the same way as in the real world. Authors, journalists and other publishers can be constantly present on a web page. The one who is visiting the page can see them and communicate with them and vice versa.

#### LIST OF FIGURES

Figure 1 shows the communication at establishing of personal communication.

Figure 2 shows an overview of the structure of the invention.

Figure 3 shows an example of how the meeting place can be shown on the client's place of work.

## EXPLANATION OF TERMS

5	Webb	Function on the Internet (or on an intranet) that allows that one in an easy way can retrieve linked information in form of text, picture and sound.
10	Web page	The amount of information on a web site that one can access without need to go further via a link; often corresponds to the amount one can see on the screen at the same time, or by scrolling the picture.
15	Chat	Carry on a dialogue by writing, in real time, via Internet.
20	Chat room	Web page for chatting.
	Node	Centre in a communication network. A node shall be addressable and recognised by the host computer.
25	World	Limited amount of "related" information sites, for instance web pages. Users who visit information sites within the same world are, according to the invention, brought together into one communicating group.
30		
35	Internet	The international computer network that has the greatest spreading and that is based on TCP/IP, a standard for data communication.



Internet address      Comprehensive term for the different types of addresses that are used on the Internet: Domain address, e-mail address, IP-address and web address.

5

Intranet              Internal computer network (for instance within an organisation), which utilises the same technology as Internet, but which is not accessible from the Internet.

10

IP-address            Numerical Internet address. In order to utilise the address space optimally, Internet users are often allocated IP-address dynamically.

15

#### DETAILED DESCRIPTION

20    The description below refers to Figure 2 in the enclosed appendix of figures.

In an open computer network, for instance Internet, users are given possibility to get access to information that has been stored on servers. Access means that the user only will have admission to the stored information. Any possibility for communication with other users who are visiting the same page does not normally exist.

30    According to the here described invention, such an arrangement is provided that a visitor (20), who retrieves information on a server via an open computer network (21) will have possibility to communicate with others (22), who are retrieving "related" information. Which information that is regarded as "related" is decided by the one who manages said arrangement. "Related" information can, for

35

instance, be information stored at the same storing place, within the same speciality, with the same author, or with the same publisher. The arrangement is so arranged that no limitation be applied to the site of the visitors in the open computer network, such as the visitor's address in the computer network. The arrangement neither implies any limitation of storing place of concerned information, such as identity, ownership, or address to server, in excess of reading rights and other restrictions of access in the open network to said information.

By the invention is provided communication facilities for users/visitors (20) on the computer network (21) without need for them to buy special equipment, software or other resources. Necessary resources can be provided by the one who manages the arrangement, in form of, among other things:

- client programs/additions to programs (23) which can be loaded to the user's terminal;
- management systems (26), which manage the arrangement and which communicate with users;
- database (25), which stores information about users and information regarding identification of said "related" information.

The client program completes the communication functions that are utilised in the user's terminal for communication on the open computer network. The completion relates to functions for the data interchange with the management system, and for communication with other users on the open computer network.

In the database, information is stored about the users who are utilising the arrangement. Necessary information is brought to the database through the user, by which the user himself/herself is given possibility to control which  
5 information that shall be stored. Examples of stored information about the user are:

- picture of the user;
- 10 • identification information such as name, organisation etc.
- address information such as address to establish communication, telephone numbers, e-mail address etc.
- 15 • biographical data.

Further there is stored in the database information to identify "related" information. This implies among other  
20 things identification and grouping of information sites.

By the described arrangement, the person searching information is given support to establish communication with other persons with the same interest, searching  
25 information, or others who are searching information within "related" fields. The arrangement also gives access to communication possibilities with said other users.

Said communication possibilities can include:  
30

- information about which other persons that are searching information within the same field, or "related" fields;
- 35 • pictures of said other persons;

- address information of said other persons;
- immediate direct communication, for instance written or oral communication, with said persons;
- 5 • publication of documents for said other persons;
- access with different rights for files and documents that have been made public for said other persons.

10

## PREFERRED EMBODIMENT

15 The description below relates to Figure 1 and Figure 3 in the appendix of drawings.

In a preferred embodiment, the invention is utilised on the Internet. A management system (11) controls the function by managing control logic (13) and constitutes storing place  
20 from where the user can load his/her computer with the client program. By the client program being retrieved via Internet, no adaptation or preinstallation is required at the user's computer (12).

25 The client program (15) is started from the user's web crawler (14). This client program reads the Internet addresses that the user activates in the web crawler.

An address to a web page is indicated in the user's web  
30 crawler (1) at which the web server where this web page is, returns the requested web page to the web crawler (2).

The client program (15) senses that a new web page has been requested (3) and sends a message (4) to the management  
35 system (11). The message contains the Internet address to the retrieved web page.

The concept "world" is used to refer to persons who are looking at the same page or, if a multiple of pages are included in a world, the same group of pages. The management system looks up in a database which world that is associated with this Internet address (5), and returns the identity for the associated world (world-ID) to the client (6). To the world is associated a lot of objects, such as users, documents and chat rooms. These objects are accessible to those who are visiting the same world, but not for others.

If it turns out that the new web page is associated to another world than the one that is shown for the time being, the client program uses this new world-ID to get access to the now current world (7).

The management system returns the documents and users that are associated with the looked up world (8), for presentation to the user. The client also changes chat room to the room that is associated with current world, in order to make possible text communication between users who are in the same world.

Each user is registered in the management system with inter alia the IP-address at which he/she is. This will facilitate communication between users and makes possible addressing also when dynamic IP-addresses are utilised.

Web pages are associated to worlds by that one indicates a node in the web tree. All pages further down in the tree than the specified node is regarded as belonging to the same world. A plurality of nodes can belong to the same world. By web tree is meant the tree structure that is created by the domain hierarchy of the Internet, and the file trees of the web servers.

## EXAMPLES OF COMPONENTS

## Chat pages (33)

- 5 Users within the same world can chat with each other by the chat function that is included in the client program.

## Picture of users (31)

- 10 Users who have stored a picture file, together with identity information, are shown by picture to all who are visiting the same world.

## Document exchange (32)

- 15 Documents in common can be located to the server so that everybody in an easy way can have access to the same document. Different rights of access to these documents in common can be allocated to the users.

20

The component is also useful for exchange of other files or objects.

## Address exchange

25

When the users have stored address information on the management server, this address information is accessible to visitors in the same world. On the management server is also stored the user's current IP-address to make chatting  
30 possible.

The invention is not limited to the above described embodiments, but can in addition to that be subject to modifications within the frame of the following patent claims and the idea of invention.

090200 041000

## PATENT CLAIMS

1. An arrangement at an open computer network (21),  
c h a r a c t e r i s e d in that communication  
5 possibilities are created between persons (20, 22) or  
agents, who request access to the same information, or  
to amounts of "related" information in form of, for  
instance, the same storing place, the same speciality,  
the same author, or the same publisher, mentioned  
10 information or amount of information may have which  
ever storing place, owner, author and publisher in  
mentioned open network that suits.
2. An arrangement as claimed in patent claim 1,  
15 c h a r a c t e r i s e d in that prepared and not  
prepared meetings are possible to establish on any  
webbside where mentioned persons or agents do not need  
to search a special fora or special meeting places,  
such as chatrooms.
- 20 3. An arrangement as claimed in any of the previous  
patent claims, c h a r a c t e r i s e d in that said  
communication possibilities include direct  
communication.
- 25 4. An arrangement as claimed in patent claim 3,  
c h a r a c t e r i s e d in that said direct  
communication can be written or oral dialogue in real  
time (33).
- 30 5. An arrangement as claimed in any of the previous  
patent claims, c h a r a c t e r i s e d in that said  
communication possibilities consist of virtual meetings.



6. An arrangement as claimed in patent claim 5,  
c h a r a c t e r i s e d in that said communication  
possibilities include functions to make files  
accessible to all participants in said virtual meeting  
5 (32).
7. An arrangement as claimed in any of the previous  
patent claims, c h a r a c t e r i s e d in that said  
communication possibilities include distribution of  
10 address information to, and picture of, said persons  
(31), and address information and picture related to  
said agents.
8. An arrangement as claimed in any of the previous  
15 patent claims, c h a r a c t e r i s e d in that said  
open computer network is Internet or other network,  
for instance an intranet, which utilises the same  
technology as Internet, and that said access to  
information and amounts of information consist of  
20 visits to web page/pages.
9. An arrangement as claimed in patent claim 8,  
c h a r a c t e r i s e d in that said communication  
possibilities are created between visitors to the same  
25 web page, or to web page that is included in an  
identified amount of web pages.
10. An arrangement as claimed in patent claim 9,  
c h a r a c t e r i s e d in that said identified  
30 amounts of web pages address persons who have a common  
interest, by the web pages within the same amount  
being, for instance, at the same server, at the same  
group of servers, dealing with the same speciality,

belonging to the same organisation, or having the same publisher, author, or constructor.

5 11. An arrangement as claimed in any of the patent claims 8 to 10, characterised in that said communication possibilities are allowed on just any web page.

10 12. An arrangement as claimed in any of the patent claims 8 to 11, characterised in that the user's current IP-address is utilised to establish communication.

15 13. An arrangement as claimed in any of the patent claims 9 to 12, characterised in the following parts:

- client program/additions to program (23), which can be loaded to the user's terminal;
- 20 • central management functions (26), which manage the arrangement and that communicate with users;
- 25 • a database (25), which stores information about users and information regarding appointment of said identified amounts of web pages.

30 14. An arrangement as claimed in any of the previous patent claims, characterised in that necessary resources for the user's terminal working place, in addition to standard applications to create access to information, can be loaded via the open computer network and be installed at the terminal working place.

35

15. An arrangement as claimed in any of the previous patent claims, characterised in that users can register the following information:

- 5       • picture of the user;
- identity information such as name and  
          organizational affiliation etc.
- 10     • address information, such as address to establish  
          communication, telephone numbers, e-mail address  
          etc.
- biographical data.

16. An arrangement as claimed in any of the patent claims 9 to 13, characterised in that said virtual meetings give possibility to:

- 20       • Chatting.
- Communication of files.
- 25     • Management of files in common.
- Access rights to communicated files and files in  
          common.
- 30     • Access to address information of the participants  
          in the meeting.
- Showing of pictures of the participants of the  
          meeting.

17. A method to create, in an open computer network, virtual meetings between persons or others playing a part, for instance agents, who have an interest in common, who visits webbsides, included in a number of webbsides, which persons with a common interest are expected to visit, c h a r a c t e r i s e d in that said meetings are established without activating measures needed to be taken by any of the participants in the meeting.
18. A method as claimed in patent claim 17, c h a r a c t e r i s e d in that said meetings are established independent of the place of the participants of the meeting or address in the network.
19. A method as claimed in patent claim 17 or 18, c h a r a c t e r i s e d in that the participants of said meeting are given information about the identities of other participants, for instance in form of name, organizatorical affiliation and stored picture or direct transmission of moving picture.
20. A method as claimed in any of the patent claims 17 to 19, c h a r a c t e r i s e d in that the participants of said meeting are given information about the address of other participants, for instance e-mail address and current IP-address.
21. A method as claimed in any of the patent claims 17 to 20, c h a r a c t e r i s e d in that the participants of said meeting can carry on conversation (33), for instance written or oral conversation.
22. A method as claimed in any of the patent claims 17 to

21, characterised in that files can be opened for the participants at said meeting.

23. A method as claimed in any of the patent claims 17 to 22, characterised in that participants of said meeting can make files and documents accessible to other participants at said meeting.

24. A method as claimed in any of the patent claims 17 to 23, characterised in that said open computer network is Internet or other network, for instance an intranet, which utilises the same technology as Internet.

25. A method as claimed in patent claim 24, characterised in that client software (23), which is required in addition to web crawler to utilise the invention, is loaded to the user terminal (20) from a management system (26).

26. A method as claimed in patent claim 24 or 25, characterised in that said meetings:

- are prepared or not prepared;
- are established between visitors to web pages that are located within the same "world", where a "world" is an amount of web pages that persons who have interests in common can be expected to visit.

27. A method as claimed in patent claim 26, characterised in that modifications of web pages within the "world", or of web servers from where

09-03-2001

20

said web pages are loaded to establish meetings, are not needed.

28. A method as claimed in patent claim 26 or 27,  
5 c h a r a c t e r i s e d in that web pages within the  
same "world" are located to the same server (16), to  
the same node, deal with the same speciality, have the  
same authors, have the same publishers, or belong to  
the same organisation.

10

29. A method as claimed in any of the patent claims 24 to  
28, c h a r a c t e r i s e d in that the support  
staff, or selling staff, of a company have possibility  
to see who are visiting the web site of the company  
15 and to communicate directly with these visitors.

15

30. A method as claimed in any of the patent claims 24  
to 29, c h a r a c t e r i s e d in that the current IP-  
address of each participant of the meeting is utilised to  
20 establish communication between the participants of the  
meeting.

20

1/3

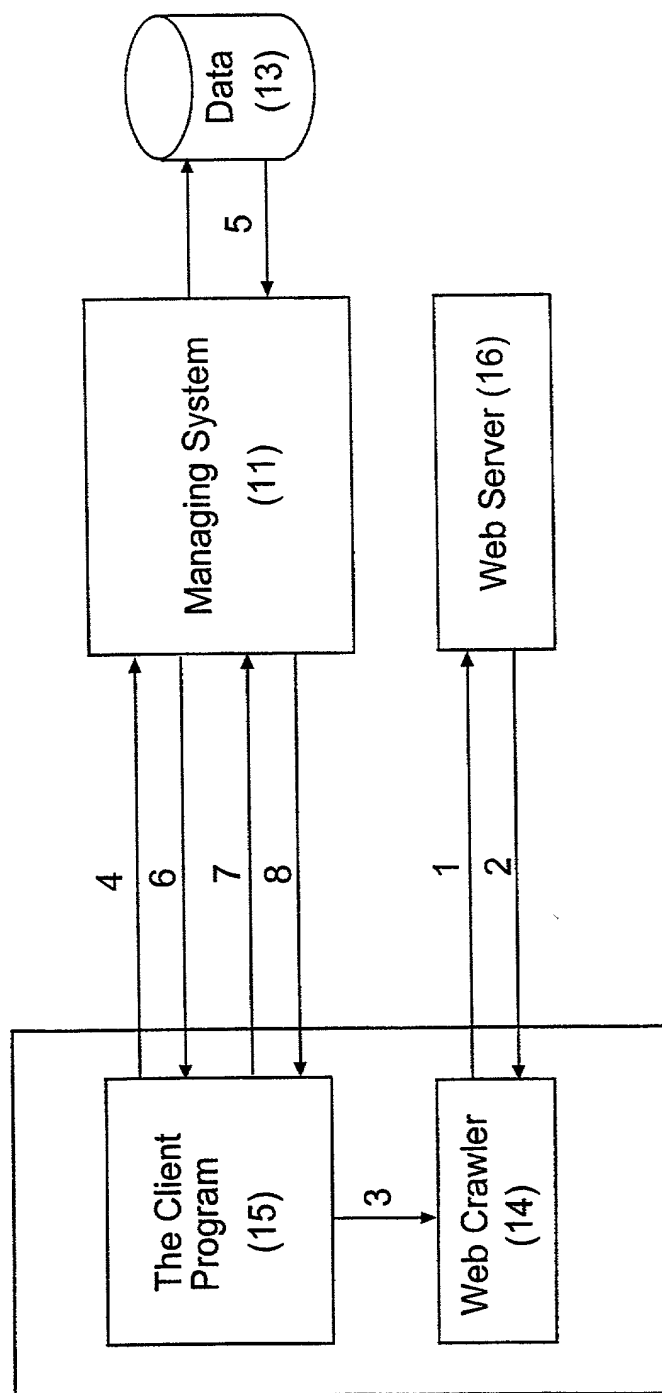


Figure 1

2/3

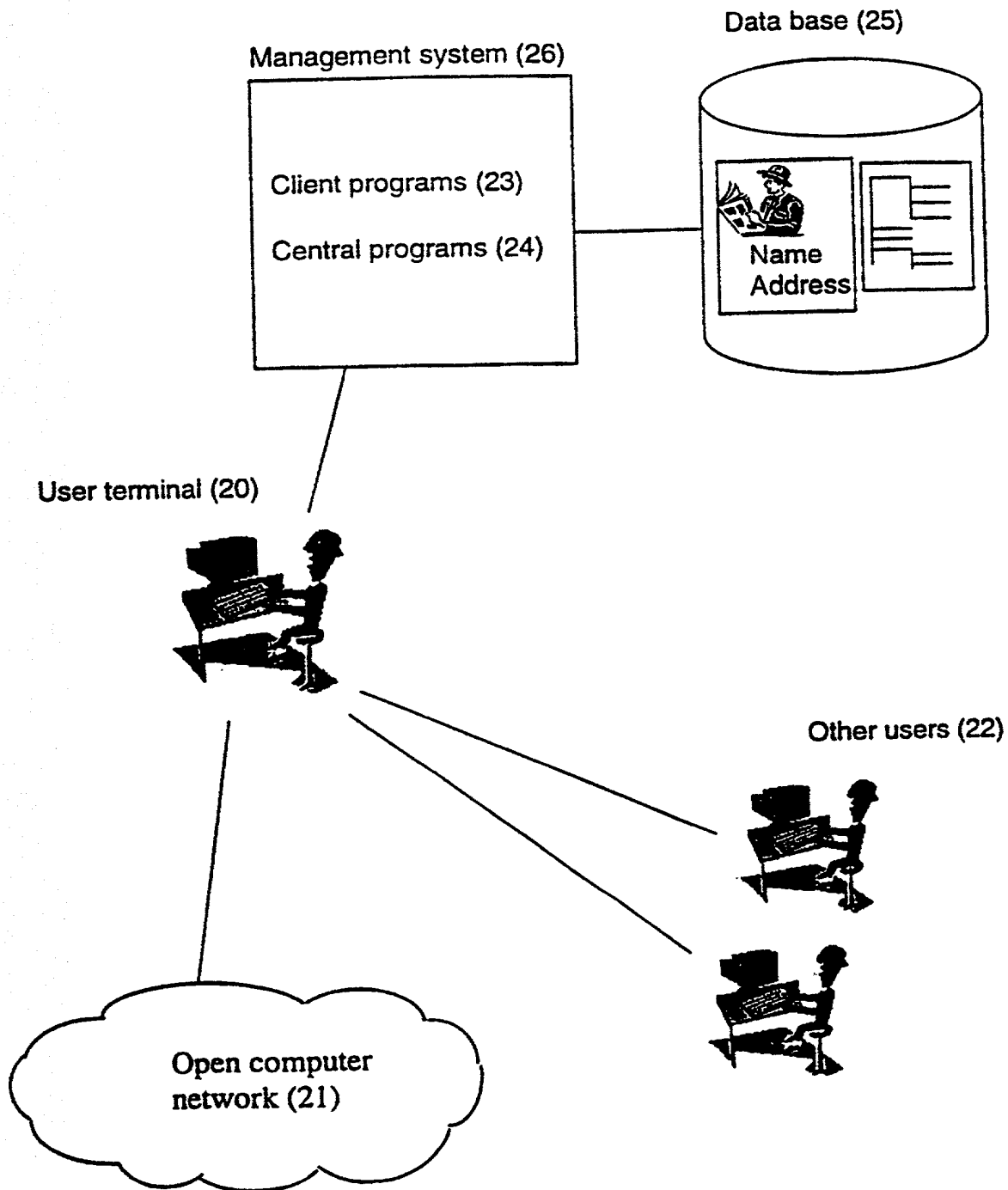


Figure 2



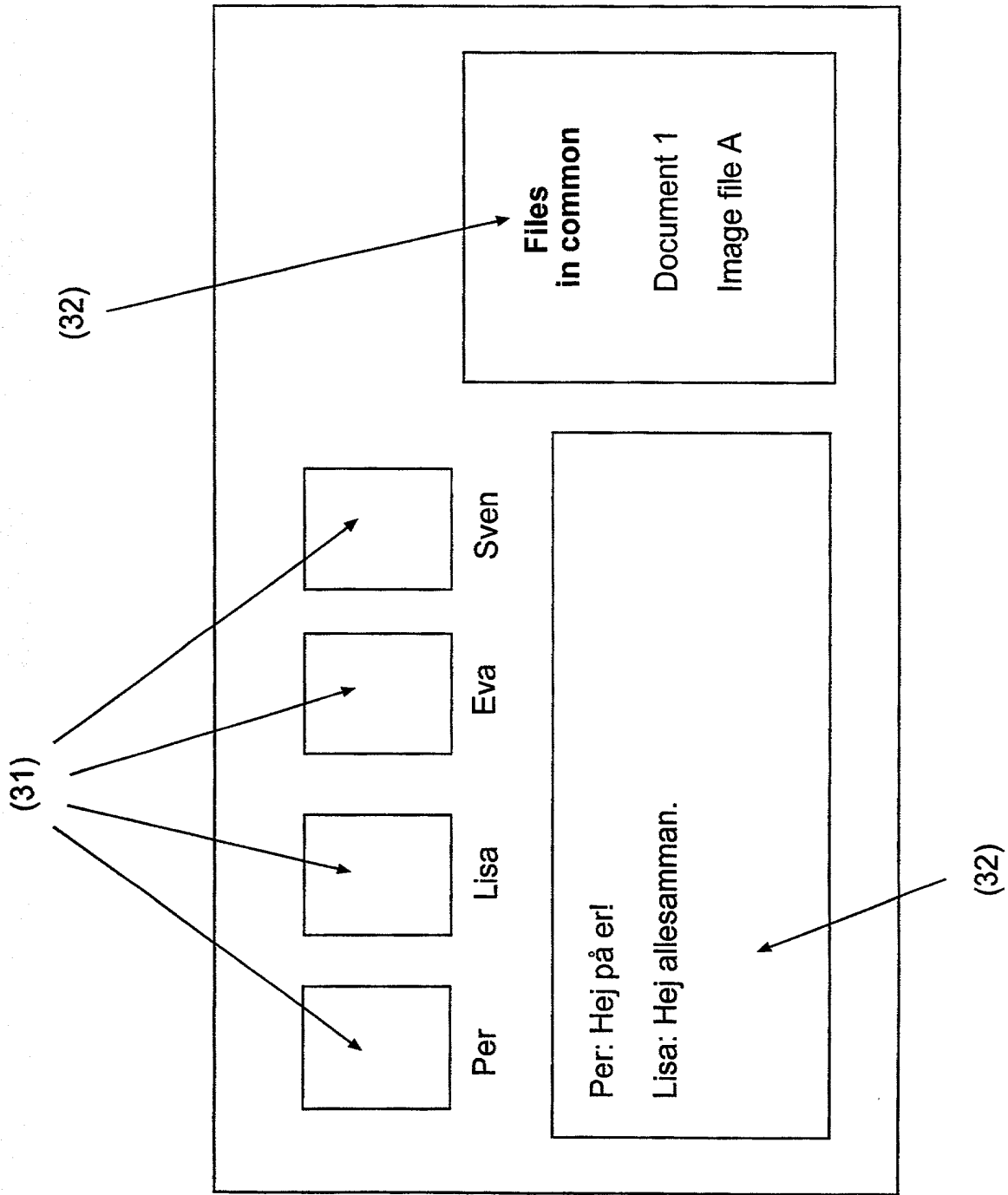


Figure 3

# Declaration and Power of Attorney for Patent Application

## Försäkran och Fullmakt avgiven i samband med ansökan om patentskydd

### Swedish Language Declaration

Som nedan nämnd uppfinnare förklarar jag att:

Min hemvist, postadress och medborgarskap är som nedan angivits.

Jag är övertygad om att jag är den ursprungliga, första och enda uppfinnaren (om endast ett namn uppges nedan) eller en av de ursprungliga och första meduppfinnarna (om flera namn anges nedan) av den uppfinning för vilken patent söks, benämnd:

vars patentbeskrivning härmed bifogas om inte

☐ härtill bifogad

☐ ingavs den \_\_\_\_\_

som U.S. ansökningsnummer eller PCT  
internationellt ansökningsnummer

\_\_\_\_\_ och ändrades den \_\_\_\_\_

\_\_\_\_\_ (eventuellt).

Jag förklarar härmed att jag har granskat och förstår innehållet i den ovannämnda beskrivningen och patentkrav med de eventuella ändringar som gjorts.

Jag är medveten om min skyldighet att uppges information av väsentlig betydelse för patentbarhet i enlighet med "Title 37, Code of Federal Regulations, § 1.56."

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled.

PERSONAL COMMUNICATION ON COMPUTER NETWORKS

the specification of which

☐ is attached hereto.

☒ was filed on September 26,  
2001

as United States Application Number or PCT  
International Application Number

09/926,221 and was amended on

\_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

## Swedish Language Declaration

Jag yrkar härmed prioritet enligt "Title 35, United States Code, § 119(a)-(d) or § 365(b)" för de(n) utländska ansökning(ar) som angivits nedan och avser patent eller uppfinnarcertifikat eller, under § 365(a) enligt ovan, för varje internationell PCT-ansökan som designerats åtminstone ytterligare ett land förutom U.S.A.; vidare har jag nedan identifierat, genom att korsa ruta, eventuella utländska patentansökningar, uppfinnarcertifikat eller internationella PCT-ansökningar som har inlämningsdatum före det inlämningsdatum för ansökan från vilket prioritet yrkas.

Prior Foreign Application(s)  
Tidigare ansökning(ar) utomlands

<u>9901121-5</u> (Number) (Nummer)	<u>SWEDEN</u> (Country) (Land)
<u>                    </u> (Number) (Nummer)	<u>                    </u> (Country) (Land)

Jag yrkar härmed på den förmon som I enligt med "Title 35, United States Code, § 119(e)" tillkommer varje de Förenta Staternas hjälpsökan som uppräknas nedan.

<u>                    </u> (Application No.) (Ansökan,nr)	<u>                    </u> (Filing Date) (ingivningsdag)
--	---

Jag yrkar härmed de förmåner som i enlighet med "Title 35, United States Code, § 120" tillkommer varje ansökan av U.S.A. eller, under § 365(c) enligt ovan, varje internationell PCT-ansökan som designerats U.S.A., och angivits nedan, och om innehållet i samtliga patentkrav i denna ansökan inte angivits i den tidigare ansökan av U.S.A. eller i internationell PCT-ansökan på det sätt som krävs enligt första paragrafen i "Title 35, United States Code § 112," är jag medveten om skyldigheten att uppgi information, som utgör material för patenterbarhet enligt "Title 37, Code of Federal Regulations, § 1.56" och som blivit tillgänglig under tiden mellan den tidigare ansökningens inlämningsdatum och datum för denna ansökans inlämnande såsom nationell ansökan eller som PCT-ansökan.

<u>PCT/SE00/00560</u> (Application No.) (Ansökan,nr)	<u>22 March 2000</u> (Filing Date) (ingivningsdag)
--	--

<u>                    </u> (Application No.) (Ansökan,nr)	<u>                    </u> (Filing Date) (ingivningsdag)
--	---

Vidare förklarar jag att dessa uppgifter, såvitt jag vet, är sanningsenliga och alla uttalanden om information och vetande förmodas vara sanningsenliga; och att dessa uppgifter lämnats I medvetande om att avsiktligt falska uppgifter och likande kan straffas med böter eller fängelse eller båda delarna enligt "Section 1001 of Title of the United States Code", och att sådana avsiktligt falska uppgifter kan äventyra giltigheten av ansökningen eller ett därav beviljat patent.

I hereby claim foreign priority under Title 35, United States Code, § 119 (a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Priority Claimed  
Prioritetsrätt  
Krävs inte

<u>26 March 1999</u> (Day/Month/Year Filed) (Tag/Monat/Jahr der Anmeldung)	<input checked="" type="checkbox"/> Yes Ja	<input type="checkbox"/> No Nej
<u>                    </u> (Day/Month/Year Filed) (Tag/Monat/Jahr der Anmeldung)	<input type="checkbox"/> Yes Ja	<input type="checkbox"/> No Nej

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

<u>                    </u> (Application No.) (Ansökan,nr)	<u>                    </u> (Filing Date) (ingivningsdag)
--	---

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

<u>                    </u> (Status: Patented, Pending, Abandoned) (ärendets status: patent meddelat, ej avgjort, avslag)
---

<u>                    </u> (Status: Patented, Pending, Abandoned) (ärendets status: patent meddelat, ej avgjort, avslag)
---

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

## Swedish Language Declaration

FULLMAKT: I egenskap av uppfinnare befullmäktigar jag härmed följande advokat/er och/eller ombud att tala och svara i denna ansökan inför US Patent & Trademark Office: (Ange namn och registreringsnummer nedan).

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number)



022850

All korespondens i ärendet sands till:

Send Correspondence to:



022850

All tel. samtal i ärendat stalls till: (namn, tel. nr.)

Direct Telephone calls to: (name and telephone number)

(703) 413-3000

Ende resp. förste uppfinnarens fullständiga namn	1-00	Full name of sole or first inventor	
		Jorgen BJORKNER	
Uppfinnarens namnteckning	Datum	✓ Inventor's signature	✓ Date
			2001-12-17
Stadigvarande bostad		Residence	
		Inteckningsvagen 31, S-129 31 Hagersten, SWEDEN	
Nationalitet		Citizenship	
		Sweden	SEX
Postadress		Mailing Address	
		same as above	

Ev. Andre meduppfinnarens fullständiga namn	2-00	Full name of second joint inventor, If any	
		Bengt SERENIUS	
Uppfinnarens namnteckning	Datum	✓ Second inventor's signature	✓ Date
			2001-12-17
Stadigvarande bostad		Residence	
		Palsundsgatan 7, S-117 31 Stockholm, SWEDEN	
Nationalitet		Citizenship	
		Sweden	SEX
Postadress		Mailing Address	
		same as above	

(Ge samma uppgifter och namnteckningar för tredje och följande meduppfinnaren.)

(Supply similar information and signature for third and subsequent joint inventors.)

## Swedish Language Declaration

3-00

Fullständigt namn av tredje meduppfinnaren, om lämplig	Full name of third joint inventor, If any Tomas UHLIN
Namnteckning av Tredje Uppfinnaren      Datum	<div style="display: flex; justify-content: space-between;"> <div>✓ Third inventor's signature </div> <div>✓ Date 2001-12-19</div> </div>
Adress	Residence Vallvagen 17, S-125 33 Alvsjö, SWEDEN      SEX
Medborgare I	Citizenship Sweden
Postadress	Mailing Address same as above

Fullständigt namn av fjärde meduppfinnaren, om lämplig	Full name of fourth joint inventor, If any
Namnteckning av Fjärde Uppfinnaren      Datum	Fourth inventor's signature      Date
Adress	Residence
Medborgare I	Citizenship
Postadress	Mailing Address

Fullständigt namn av femte meduppfinnaren, om lämplig	Full name of fifth joint inventor, If any
Namnteckning av Femte Uppfinnaren      Datum	Fifth inventor's signature      Date
Adress	Residence
Medborgare I	Citizenship
Postadress	Mailing Address

Fullständigt namn av sjätte meduppfinnaren, om lämplig	Full name of sixth joint inventor, If any
Namnteckning av Sjätte Uppfinnaren      Datum	Sixth inventor's signature      Date
Adress	Residence
Medborgare I	Citizenship
Postadress	Mailing Address

(Ge samma uppgifter och namnteckningar för sjunde och följande meduppfinnaren.)

(Supply similar information and signature for seventh and subsequent joint inventors.)